

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/005,318DATE: 02/20/98
TIME: 10:50:14

INPUT SET: S23610.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

(1) General Information:

(i) APPLICANTS: Hein, Mich B.
Hiatt, Andrew C.
Fitchen, John H.

(ii) TITLE OF INVENTION: NOVEL EPITHELIAL TISSUE TARGETING AGENT

(iii) NUMBER OF SEQUENCES: 113

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: SEED and BERRY LLP
(B) STREET: 6300 Columbia Center, 701 Fifth Avenue
(C) CITY: Seattle
(D) STATE: Washington
(E) COUNTRY: USA
(F) ZIP: 98104

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:
(B) FILING DATE: 09-JAN-1998
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Maki, David J.
(B) REGISTRATION NUMBER: 31,392
(C) REFERENCE/DOCKET NUMBER: 310098.401C1

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (206) 622-4900
(B) TELEFAX: (206) 682-6031

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 137 amino acids
(B) TYPE: amino acid

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99(C) STRANDEDNESS:
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Gln	Glu	Asp	Glu	Arg	Ile	Val	Leu	Val	Asp	Asn	Lys	Cys	Lys	Cys	Ala
1				5					10					15	
Arg	Ile	Thr	Ser	Arg	Ile	Ile	Arg	Ser	Ser	Glu	Asp	Pro	Asn	Glu	Asp
			20					25					30		
Ile	Val	Glu	Arg	Asn	Ile	Arg	Ile	Ile	Val	Pro	Leu	Asn	Asn	Arg	Glu
		35					40					45			
Asn	Ile	Ser	Asp	Pro	Thr	Ser	Pro	Leu	Arg	Thr	Arg	Pro	Val	Tyr	His
		50				55				60					
Leu	Ser	Asp	Leu	Cys	Lys	Lys	Cys	Asp	Pro	Thr	Glu	Val	Glu	Leu	Asp
65					70				75					80	
Asn	Gln	Ile	Val	Thr	Ala	Thr	Gln	Ser	Asn	Ile	Cys	Asp	Glu	Asp	Ser
				85					90					95	
Ala	Thr	Glu	Thr	Cys	Tyr	Thr	Tyr	Asp	Arg	Asn	Lys	Cys	Tyr	Thr	Ala
			100					105					110		
Val	Val	Pro	Leu	Val	Tyr	Gly	Gly	Glu	Thr	Lys	Met	Val	Glu	Thr	Ala
		115					120					125			
Leu	Thr	Pro	Asp	Ala	Cys	Tyr	Pro	Asp							
		130				135									

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 135 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS:
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Gln	Asp	Glu	Asn	Glu	Arg	Ile	Val	Val	Asp	Asn	Lys	Cys	Lys	Cys	Ala
1				5					10					15	

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100 Arg Ile Thr Ser Arg Ile Ile Pro Ser Ala Glu Asp Pro Ser Gln Asp
101 20 25 30
102
103 Ile Val Glu Arg Asn Val Arg Ile Ile Val Pro Leu Asn Ser Arg Glu
104 35 40 45
105
106 Asn Ile Ser Asp Pro Thr Ser Pro Met Arg Thr Lys Pro Val Tyr His
107 50 55 60
108
109 Leu Ser Asp Leu Cys Lys Lys Cys Asp Thr Thr Glu Val Glu Leu Glu
110 65 70 75 80
111
112 Asp Gln Val Val Thr Ala Ser Gln Ser Asn Ile Cys Asp Ser Asp Ala
113 85 90 95
114
115 Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Asn Arg Val
116 100 105 110
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118 Lys Leu Ser Tyr Arg Gly Gln Thr Lys Met Val Glu Thr Ala Leu Thr
119 115 120 125
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121 Pro Asp Ser Cys Tyr Pro Asp
122 130 135
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125 (2) INFORMATION FOR SEQ ID NO:3:
126 (i) SEQUENCE CHARACTERISTICS:
127 (A) LENGTH: 137 amino acids
128 (B) TYPE: amino acid
129 (C) STRANDEDNESS:
130 (D) TOPOLOGY: linear
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137 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
138 Asp Asp Glu Ala Thr Ile Leu Ala Asp Asn Lys Cys Met Cys Thr Arg
139 1 5 10 15
140 Val Thr Ser Arg Ile Ile Pro Ser Thr Glu Asp Pro Asn Glu Asp Ile
141 20 25 30
142 Val Glu Arg Asn Ile Arg Ile Val Val Pro Leu Asn Asn Arg Glu Asn
143 35 40 45
144 Ile Ser Asp Pro Thr Ser Pro Leu Arg Arg Asn Pro Val Tyr His Leu
145 50 55 60
146 Ser Asp Val Cys Lys Lys Cys Asp Pro Val Glu Val Glu Leu Glu Asp
147 65 70 75 80
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153 Gln Val Val Thr Ala Thr Gln Ser Asn Ile Cys Asn Glu Asp Asp Gly
154 85 95
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156 Val Pro Glu Thr Cys Tyr Met Tyr Asp Arg Asn Lys Cys Tyr Thr Thr
157 100 105 110
158
159 Met Val Pro Leu Arg Tyr His Gly Glu Thr Lys Met Val Gln Ala Ala
160 115 120 125
161
162 Leu Thr Pro Asp Ser Cys Tyr Pro Asp
163 130 135
164
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(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 136 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

159 Glu Asp Glu Ser Thr Val Leu Val Asp Asn Lys Cys Gln Cys Val Arg
160 1 5 10 15
161
162 Ile Thr Ser Arg Ile Ile Arg Asp Pro Asp Asn Pro Ser Glu Asp Ile
163 20 25 30
164
165 Val Glu Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Thr Arg Glu Asn
166 35 40 45
167
168 Ile Ser Asp Pro Thr Ser Pro Leu Arg Thr Glu Pro Lys Tyr Asn Leu
169 50 55 60
170
171 Ala Asn Leu Cys Lys Lys Cys Asp Pro Thr Glu Ile Glu Leu Asp Asn
172 65 70 75 80
173
174 Gln Val Phe Thr Ala Ser Gln Ser Asn Ile Cys Pro Asp Asp Asp Tyr
175 85 90 95
176
177 Ser Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Thr Leu
178 100 105 110
179
180 Val Pro Ile Thr His Arg Gly Val Thr Arg Met Val Lys Ala Thr Leu
181 115 120 125
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183 Thr Pro Asp Ser Cys Tyr Pro Asp
184 130 135
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207 (2) INFORMATION FOR SEQ ID NO:5:

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209 (i) SEQUENCE CHARACTERISTICS:

210 (A) LENGTH: 119 amino acids

211 (B) TYPE: amino acid

212 (C) STRANDEDNESS:

213 (D) TOPOLOGY: linear

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219 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

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221 Glu Gln Glu Tyr Ile Leu Ala Asn Asn Lys Cys Lys Cys Val Lys Ile
222 1 5 10 15223 Ser Ser Arg Phe Val Pro Ser Thr Glu Arg Pro Gly Glu Glu Ile Leu
224 20 25 30225 Glu Arg Asn Ile Gln Ile Thr Ile Pro Thr Ser Ser Arg Met Xaa Ile
226 35 40 45227 Ser Asp Pro Tyr Ser Pro Leu Arg Thr Gln Pro Val Tyr Asn Leu Trp
228 50 55 60229 Asp Ile Cys Gln Lys Cys Asp Pro Val Gln Leu Glu Ile Gly Gly Ile
230 65 70 75 80231 Pro Val Leu Ala Ser Gln Pro Xaa Xaa Ser Xaa Pro Asp Asp Glu Cys
232 85 90 95233 Tyr Thr Thr Glu Val Asn Phe Lys Lys Lys Val Pro Leu Thr Pro Asp
234 100 105 110235 Ser Cys Tyr Glu Tyr Ser Glu
236 115

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239 (2) INFORMATION FOR SEQ ID NO:6:

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241 (i) SEQUENCE CHARACTERISTICS:

242 (A) LENGTH: 128 amino acids

243 (B) TYPE: amino acid

244 (C) STRANDEDNESS:

245 (D) TOPOLOGY: linear

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258 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

SEQUENCE LISTING

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Original Text

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